Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-04/610j/CEMENT/2018-19 Date: 05.04.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvements to RCC drains and CC roads at adjacent cross roads in Anjaneya temple road and other roads in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/290/2017-18 Dated: 17.03.2018
* Sample ID	:	Cement - Sample 1
Sample Received on	:	03.04.2018
Period of Testing	:	03.04.2018 to 05.04.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	170 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	470 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

VIDYARANI P.K.
Technical Manager

Scanned by CamScanner

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-04/610j/SAND-Gradation/2018-19 05.04.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.
* **Name of Work** : Improvements to RCC drains and CC roads at adjacent cross roads in Anjaneya temple road and other roads in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* **Reference** : BBMP/EE/DD/WO/290/2017-18 Dated: 17.03.2018
* **Sample ID** : Fine Aggregates - Sample 1

Technical Reference : IS : 2386 (Part 1) - 1963 (RA-2011)

Sample Received On : 03.04.2018

Date of Testing : 05.04.2018

CIVIL ENGINEERING TESTING LABORATORY www.civiltechconsultants.com

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.70	90-100	90-100	90-100	95-100
2.36	79.20	60-95	75-100	85-100	95-100
1.18	57.90	30-70	55-90	75-100	90-100
600 Micron	42.40	15-34	35-59	60-79	80-100
300 Micron	20.60	5-20	8-30	12-40	15-50
150 Micron	6.10	0-10	0-10	0-10	0-15

Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Civil-Tech Consultants & Engineers Bangalore

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

Scanned by CamScanner

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No: CTCE/BBMP/KRIDL/W/No.13/CSR-04/610/AGG/GR/2018-19 05.04.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency : **Technical Manager (West),** KRIDL, Bangalore.
* Name of Work : Improvements to RCC drains and CC roads at adjacent cross roads in Anjaneya temple road and other roads in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference : BBMP/EE/DD/WO/290/2017-18 Dated: 17.03.2018
* Sample ID : Coarse Aggregates (40mm) - Sample 1

Technical Reference : IS : 2386 (Part 1) -1963 (RA-2011)

Sample Received on : 03.04.2018

Date of Testing : 05.04.2018

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.62	95-100	85-100
20	41.92	30-70	0-20
10	15.88	10-35	0-5
4.75	2.08	0-5	-

* Information is furnished by the Customer/Representative

Civil-Tech Consultants & Engineers Bangalore

Remarks : This sample is under graded specific limits.

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

VIDYARANI P.K.
Technical Manager

****

Scanned by CamScanner

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.13/Steel/2018-19 07.04.2018

TEST REPORT ON REINFORCEMENT STEEL

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.
* **Name of work** : Improvements to RCC drains and CC roads at adjacent cross roads in Anjaneya temple road and other roads in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* **Reference** : BBMP/EE/DD/WO/290/2017-18 Dated: 17.03.2018
* **Samples ID** : 8mm Bar

Technical Reference : IS: 1786-2008

Date of Testing : 07.04.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	551	13.15	O.K	O.K

*Information is furnished by the Customer/Representative.

Civil-tech Consultants & Engineers Bengalore

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

****

Civil-tech Consultants & Engineers
#23/14, 7th Cross 3rd Stage 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

Scanned by CamScanner

Job No.: CTCE/BBMP/KRIDL/W.No.13/Steel/2018-19 07.04.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : **Technical Manager (West),** KRIDL, Bangalore.

* Name of work : Improvements to RCC drains and CC roads at adjacent cross roads in Anjaneya temple road and other roads in Mallasandra in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

* Reference : BBMP/EE/DD/WO/290/2017-18 Dated: 17.03.2018

* Samples ID : 10 mm Bar

Technical Reference : IS: 1786-2008

Date of Testing : 07.04.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	555	13.3	O.K	O.K

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

****

Civil-tech Consultants & Engineers
#23/14, 7th Cross 3rd Stage 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

Scanned by CamScanner